UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF COMMERCIAL FISHERIES

CALIFORNIA FISHERY MARKET NEWS MONTHLY SUMMARY

March 1962

Part II–Fishing Information*

Sea-surface temperatures, fishing and research information of interest to the West Coast tuna-fishing industry and marine scientists

CONTENTS

	Page
Notice to Prospective Offerers	2
Sea Surface Temperature Charts, Eastern Pacific Ocean, March 1962	2

Bureau of Commercial Fisheries
Biological Laboratory
P. O. Box 6121, Pt. Loma Station
San Diego 6, California

* Part I - "Fishery Products Production and Market Data" is issued by the Bureau of Commercial Fisheries, Market News Service, Post Office Building, San Pedro, California

NOTICE TO PROSPECTIVE OFFERERS

The U. S. Fish and Wildlife Service, Bureau of Commercial Fisheries, will negotiate for the charter of one vessel and crew to engage in tuna behavior studies and tagging. The charter will be for a 21 to 30 day period between June 1 and August 30, 1962. Actual dates subject to the availability of bluefin tuna, and of tropical tunas off Baja California

The vessel should be equipped for tuna seining, be refrigerated and have accommodations for a scientific party of three.

Interested parties should contact either our Terminal Island office or the San Diego Biological Laboratory to arrange for an interview.

All inquiries will be confidential. Inquiries should be addressed to:

Gerald V. Howard, Director
Biological Laboratory
Bureau of Commercial Fisheries
P. O. Box 6121, Pt. Loma Station
San Diego 6, California

not later than May 1, 1962.

SEA SURFACE TEMPERATURE CHARTS, EASTERN PACIFIC OCEAN
March 1962

Acknowledgments

The following organizations and stations contributed data for the March 1962 charts:

U. S. Weather Bureau, San Diego, California
U. S. Weather Bureau Ship Visitation Office, Long Beach, California
U. S. Naval Communication Station Balboa, Fort Amador, Canal Zone
U. S. Navy Branch Hydrographic Office, Honolulu, Hawaii; Seattle, Washington; San Francisco and Wilmington, California

U. S. Coast Guard, Port Hueneme Light Station, Port Hueneme, California

U. S. Bureau of Commercial Fisheries, Biological Laboratories, Honolulu, Hawaii; La Jolla, California; Seattle, Washington

U. S. Bureau of Commercial Fisheries, Exploratory Fishing and Gear Research Base, Seattle, Washington

Guadalupe Island, Ensenada, Cedros Island and Almejas Bay by Pedro Mercado of the Universidad Autonoma de Baja California, Ensenada, Mexico

Hopkins Marine Station, Pacific Grove, California by J. P. Balesteri

Humboldt State College by George Allen

Inter-American Geodetic Survey by Rene Cortes at Salina Cruz, Mexico; David Ortega at Manzanillo, Mexico; Romeo Valencia at Pt. San Jose, Guatemala; R. E. Pino at Pt. Armuelles, Panama; V. E. Castillo at Tumaco, Colombia; Gualberto Tapia at San Cristobal, Galapagos; J. V. Aldaz at La Libertad, Ecuador; G. Villar at Talara, Peru; R. Celis at San Juan, Peru

Inter-American Tropical Tuna Commission, La Jolla, Terminal Island, California and Guayaquil, Ecuador

Kelco Company, San Diego, California

Oregon State University by Bruce Wyatt and Norman Kujala

Pacific Oceanographic Group, Nanaimo, British Columbia, by H. J. Hollister from observations by R. W. Collins at Quatsino Lightstation; G. J. Skinner at Cape St. James Light; B. Stuart at Amphitrite Point Light; J. M. Hartt at Langara Island Light

Scripps Institution of Oceanography, La Jolla, California by Margaret Robinson and Hans Klein

Ship Santa Maria

Charts

Figure 1.--Mean sea surface temperatures (°F) derived from approximately 8000 observations. Squares show temperatures at weather-ship stations. Numerals on shore are temperatures at coastal and light stations.

Figure 2.--Deviation of sea surface temperatures (°F) from long term mean charts of H.O. 225. Hatched areas are colder than mean.

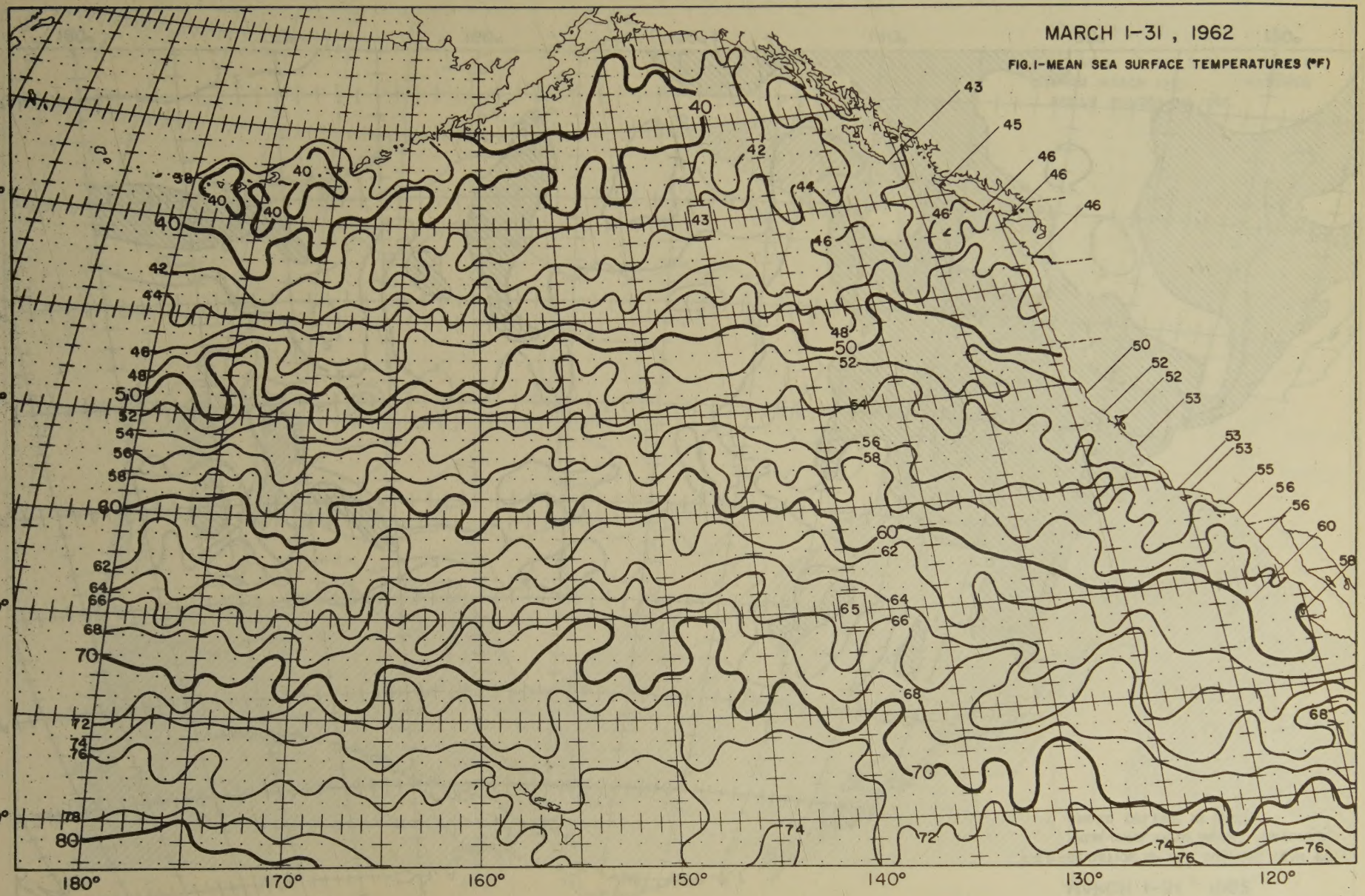
Figure 3.--Deviation of sea surface temperatures (°F) from those of March 1961. Hatched areas are colder than 1961.

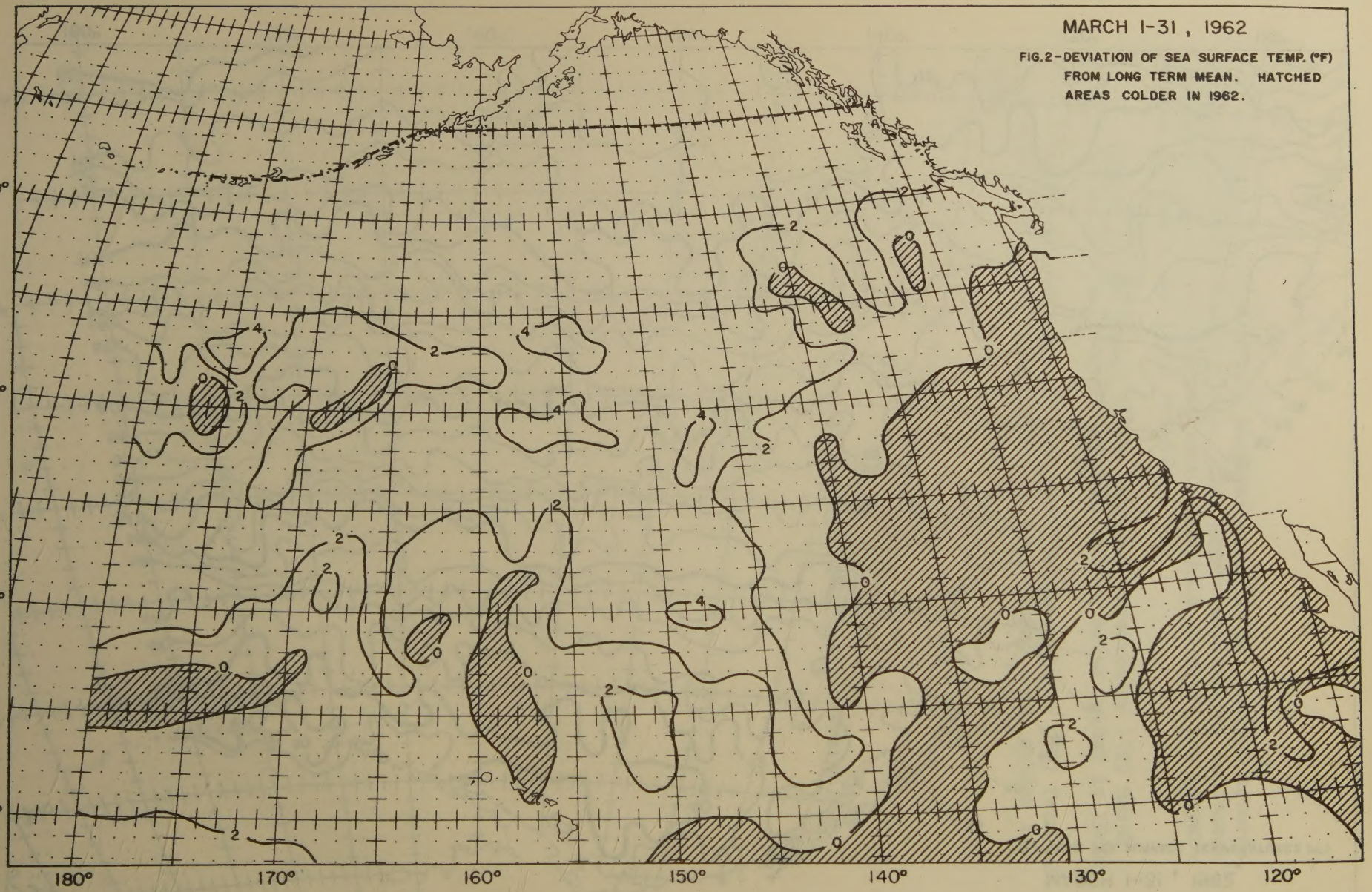
Figure 4.--Sea surface temperatures (°F) by 1-degree squares, approximately 2000 observations. Line under temperatures indicates average of two or more observations. Numerals on shore are temperatures at coastal and light stations.

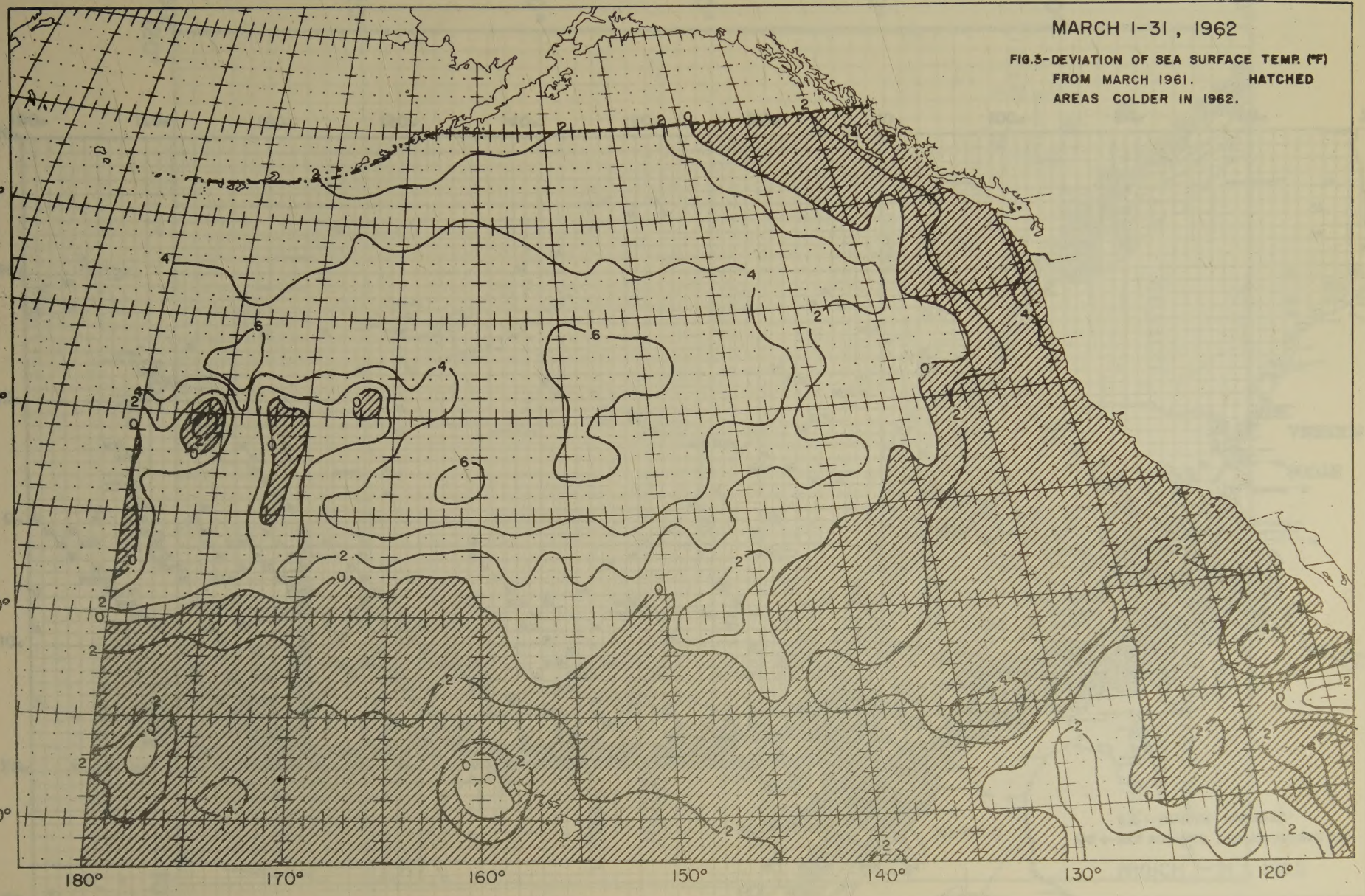
Figure 5.--Deviation of sea Surface temperatures (°F) March 1962 - March 1961 by 1-degree squares. Shaded areas colder in 1962.

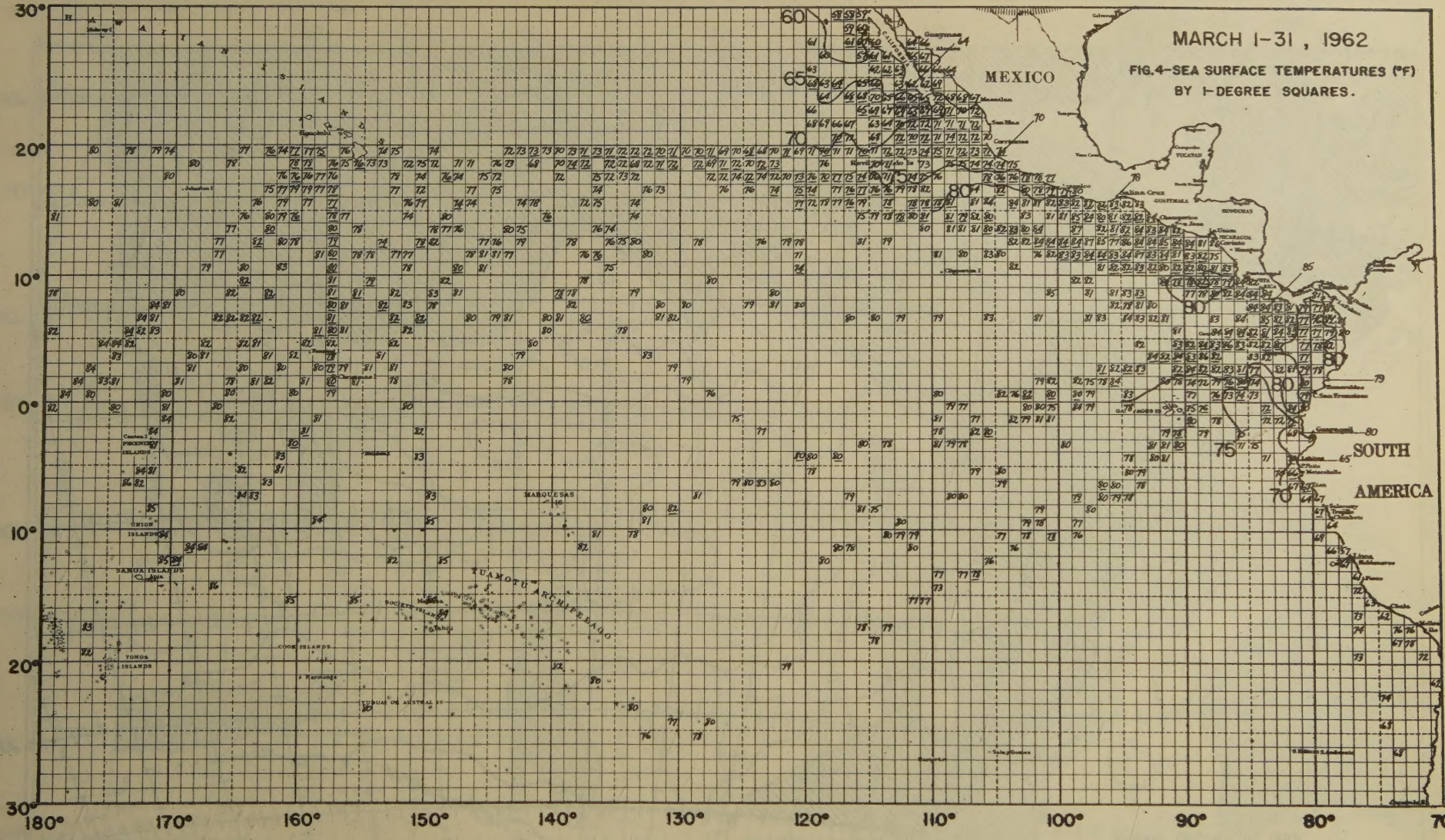
Figure 6.--Deviation of sea surface temperatures (°F) from 12 year mean (1947-1958) by 2-degree squares. Shaded areas colder in 1962.

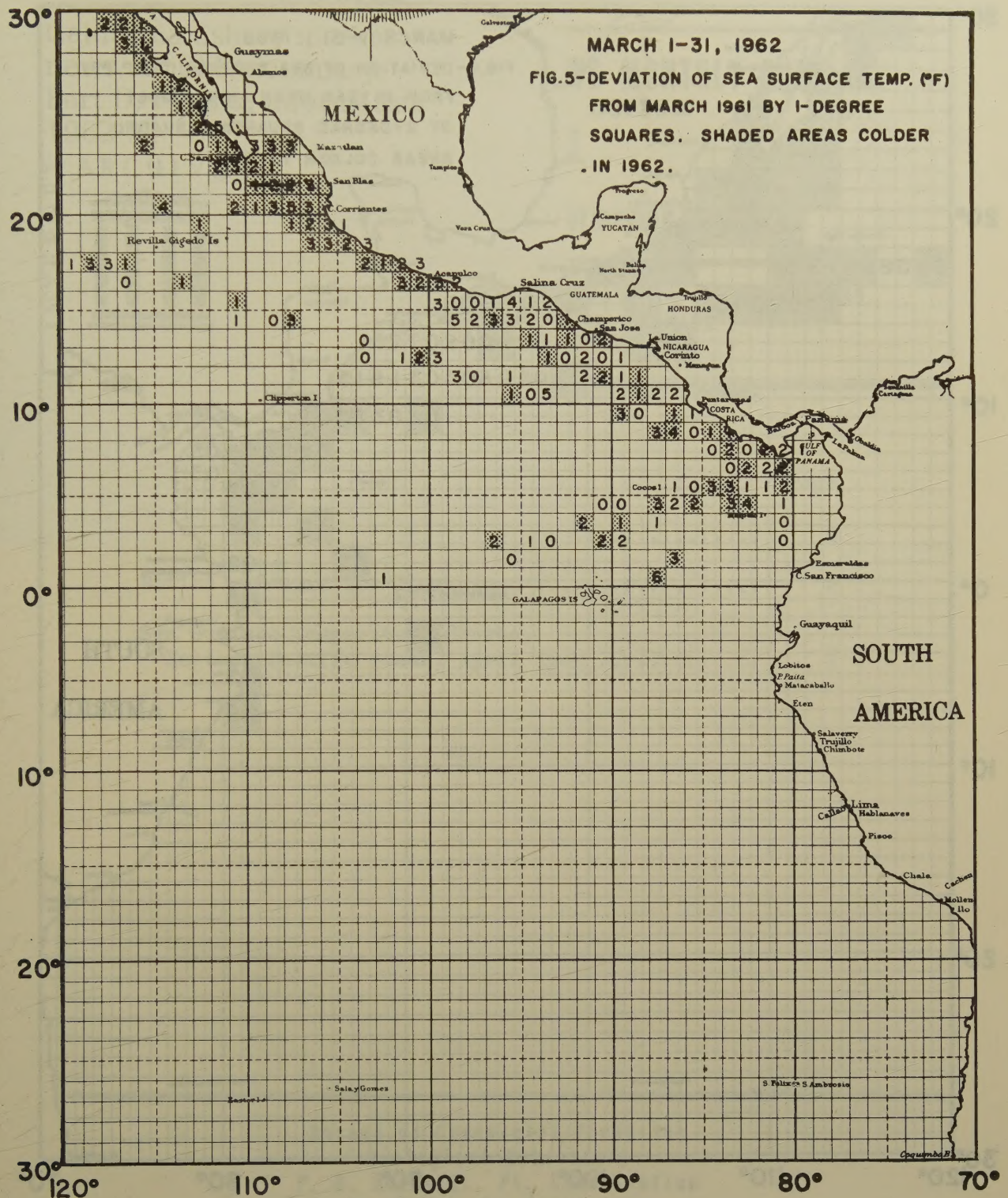
James A. Renner
Fishery Biologist (Research)

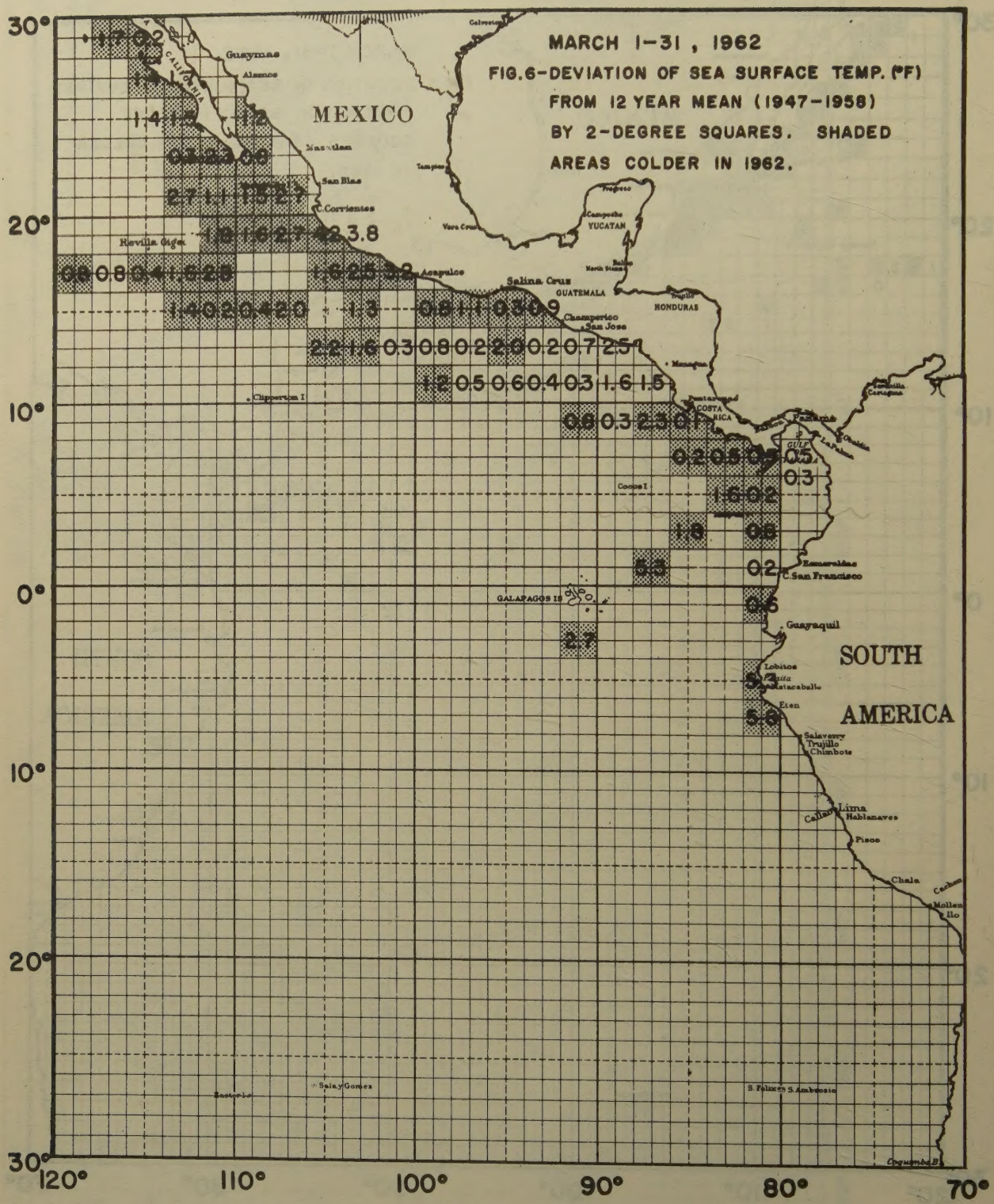

MARCH 1-31, 1962
FIG. 1-MEAN SEA SURFACE TEMPERATURES (°F)
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°


MARCH 1-31, 1962
FIG. 2 - DEVIATION OF SEA SURFACE TEMP. (°F) FROM LONG TERM MEAN. HATCHED AREAS COLDER IN 1962.
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°


MARCH 1-31, 1962
FIG.3-DEVIATION OF SEA SURFACE TEMP. (°F) FROM MARCH 1961. HATCHED AREAS COLDER IN 1962.
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°


MARCH 1-31, 1962
FIG. 4-SEA SURFACE TEMPERATURES (°F)
BY 1-DEGREE SQUARES.
MEXICO
SOUTH
AMERICA
HAWAIIAN ISLANDS
PHOENIX ISLANDS
UNION ISLANDS
SAMOA ISLANDS
TUAMOTU ARCHIPELAGO
SOCIETY ISLANDS
COOK ISLANDS
TONGA ISLANDS
MARQUESAS
TUBUAI OR AUSTRAL IS.
30°
20°
10°
0°
10°
20°
30°
180°
170°
160°
150°
140°
130°
120°
110°
100°
90°
80°
70°


MARCH 1-31, 1962
FIG.5-DEVIATION OF SEA SURFACE TEMP. (°F)
FROM MARCH 1961 BY 1-DEGREE
SQUARES. SHADED AREAS COLDER
. IN 1962.
MEXICO
CALIFORNIA
Guaymas
Alamos
Mazatlan
San Blas
Corrientes
Revilla Gigedo Is
Acapulco
Salina Cruz
GUATEMALA
HONDURAS
Champerico
San José
Le Union
NICARAGUA
Corinto
Managua
Chipperton I
COSTA RICA
Puntarenas
GULF OF PANAMA
Cocos I
GALAPAGOS IS
Esmeraldas
C. San Francisco
Guayaquil
SOUTH
AMERICA
Lobitos
P. Paita
Matacaballo
Eten
Salaverry
Trujillo
Chimbote
Callao
Lima
Hablanaves
Pisco
Chala
Mollendo
Salas y Gomez
S. Felix
S. Ambrosio
30°
20°
10°
0°
10°
20°
30°
120°
110°
100°
90°
80°
70°


MARCH 1-31, 1962
FIG.6-DEVIATION OF SEA SURFACE TEMP. (°F)
FROM 12 YEAR MEAN (1947-1958)
BY 2-DEGREE SQUARES. SHADED
AREAS COLDER IN 1962.
MEXICO
SOUTH
AMERICA
GUATEMALA
HONDURAS
COSTA RICA
GULF
YUCATAN
GALAPAGOS IS
Guaymas
Alamos
San Blas
C. Corrientes
Acapulco
Salina Cruz
Champerico
San José
Clipperton I
Cocos I
Esmeraldas
C. San Francisco
Guayaquil
Lobitos
Talara
Eten
Salaverry
Trujillo
Chimbote
Lima
Callao
Huacho
Pisco
Chala
Mollendo
30°
20°
10°
0°
10°
20°
30°
120°
110°
100°
90°
80°
70°